

Sub  
C1  
A1  
an abstract routine generator for receiving a data stream comprising a multimedia routine and for outputting a generic abstract representation thereof during runtime; and

5 a translator for said abstract routine generator for receiving said abstract representation and for outputting processor specific code during said runtime for processing multimedia input data during said runtime.

Sub  
C1  
A2  
10 4. The apparatus of Claim 1 wherein said multimedia input data comprise SIMD input data.

5. The apparatus of Claim 1, wherein said multimedia input data comprise image input data.

15 6. The apparatus of Claim 1, wherein said multimedia input data comprise audio input data.

Sub  
C1  
A3  
20 12. A method for generating assembly code, comprising:  
providing an abstract routine generator for generating a generic abstract representation of an input stream during runtime, said input stream comprising a multimedia routine; and

providing a translator for receiving said abstract representation from said abstract routine generator and for outputting processor-specific code during said runtime for processing multimedia input data during said runtime.